

Abstract of the Disclosure

The invention concerns an artificial joint, in particular an endoprosthesis for replacing natural joints, comprising at least two artificial joint parts with curved articulation faces, a curved contact line being formed on each of the articulation faces. The curved contact line (L1) of one of the articulation faces is part of an elliptical section contour of a first cylinder (1) or cone having the cylinder radius (R1) or the cone angle ( $\alpha_1$ ). The other contact line (L2) takes the form of a counter track of a second cylinder (2) or second cone having the cylinder radius (R2) or the cone angle ( $\alpha_2$ ) and rolling and/or sliding on the first cylinder (1) or first cone. The articulation faces comprise control faces (F1, F2) formed from a plurality of straight contact lines (B). On one side, these control faces (F1, F2) adjoin the contact lines (L1, L2) opposite one another, and each of the contact lines is the connection line between an instantaneous contact point (K) of the contact lines (L1, L2) and an instantaneous common point (Q) or the instantaneous pole of the respective movement systems in a reference plane (X, Y) or a reference sphere in the moved/unmoved system.

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